| NRC FORM : (12-81) 10 CFR 50 | LICENSEE EVENT REPORT | 3150-0011 |
|------------------------------------|--|--------------------|
| | NTROL BLOCK: 1 1 (PLEASE PRINT OR TYPE ALL REQUIRED INFO | ORMATION) |
| 0 1 M | A P P S 1 2 0 0 - 0 0 0 0 - 0 0 | D 3 |
| CON'T | REPORT L 6 0 5 0 - 0 2 9 3 7 0 9 1 2 7 7 8 1 2 1 80URCE 60 61 DOCKET NUMBER 65 65 EVENT DATE 74 75 REPORT | 3 8 4 9 |
| 0 2 0 | n September 12, 1977, during grind-out of an indication in the CRD | return |
| 0 3 [| ine nozzle, it was necessary to penetrate approximately one-eighth | inch into |
| 0 4 + | he base metal. The overall dimensions of the repaired area were 2 | 7/8" long, |
| The second second second | 3/4" wide, and 5/16" deep (3/16" clad and 1/8" base metal). The c | |
| 060 | f the grind-out area was 185° nozzle azimuth and the frontal edge of | the |
| 0 7 lg | rind-outwas approximately 64" into the nozzle. | |
| 08 | COMP. VALVE | ** |
| 0 9 | CODE CODE SUBCODE COMPONENT CODE SUBCODE SUBCODE | ^ |
| 7 | 9 10 11 12 13 18 18 20 SEQUENTIAL OCCURRENCE REPORT REPORT NO. CODE TYPE | REVISION |
| 0 | LERITRO REPORT 7 7 | 12 COMPONENT 26 |
| L F | ON PUTURE EFFECT SHUTDOWN HOURS 22 ATTACHMENT NORD-4 PRIME COMPLETED FORM SUB. SUPPLIES SUPPL | C 4 9 0 |
| 10 CA | use description and corrective actions (27) Cause of the event is attributed to thermal-induced fatigue cracking | |
| 111 | recommendations of General Electric SIL No. 200, Suppl. 2, and NUR | |
| 12 | CRD return line was removed from the system to preclude recurrence | |
| 13 | event. A similar report, LER 76-007/01T, was issued on 3/15/76 co | ncerning |
| 14 | feedwater nozzles. | 80 |
| PAC STA | TUS POWER OTHER STATUS 30 METHOD OF DISCOVERY DESCRIPTION OF A 31 Operational Ev | ent |
| 7 8 9 ACT | ASED OF RELEASE AMOUNT OF ACTIVITY | 36) |
| 16 | Z] 39 Z 39 N.A. | 80 |
| 17 | N.A. | |
| (10) | PERSONNEL INJURIES NUMBER DESCRIPTION 41 | |
| 19 | OF OR DAMAGE TO PACILITY 43 | |
| 201 | #UBLICITY PDR ADDCK 05000293 PDR ADDCK 05000293 N.A. | NRC USE ONLY |
| 7 . | NAME OF PREPARER P. J. Hamilton PHONE: (617) 74 | 46-7900 |

ATTACHMENT TO
LER 77-031/01X-1
BOSTON EDISON COMPANY
PILGRIM NUCLEAR POWER STATION
DOCKET NO. 50-293

Description

During the 1977 refueling outage, implementation of a plant design change was completed which provided for re-routing the CRD return line from the reactor vessel to the RCIC pump discharge. The return line was valved open to allow CRD system return flow. This modification was implemented to eliminate the potential for thermal cracking of the CRD return line nozzle. This problem had previously been identified in General Electric Service Information Letter, SIL No. 200.

In November 1977, GE issued Supplement No. 2 to SIL No. 200 recommending that BWR's in which the CRD return line had been re-routed, operate the system with the re-routed return line valve closed, to reduce the risk of thermal fatigue cracking in the weld which joins the return line to the RCIC system. The SIL also recommended the complete removal of the CRD return line once it had been verified that CRD make-up capability (flow to the reactor vessel through the CRD seals) would be satisfactory. Removal of the CRD return line was completed in February 1982 via a plant design change.

BOSTON EDISON COMPANY

800 BOYLSTON STREET BOSTON, MASSACHUSETTS 02199

WILLIAM D. HARRINGTON SENIOR VICE PRESIDENT NUCLEAR

December 13, 1984

BECo Ltr. #84- 210

Dr. Thomas E. Murley Regional Administrator, Region I U.S. Nuclear Regulatory Commission 631 Park Avenue King of Prussia, PA 19406

> Docket Number 50-293 License DPR-35

Dear Sir:

The attached update Licensee Event Report 77-031/01X-1, "CRD Return Line Nozzle," is hereby submitted in accordance with the previous requirements of Pilgrim Nuclear Power Station Technical Specification 6.9.B.l.c.

If there are any questions on this subject, please do not hesitate to contact me.

Respectfully submitted,

W. D. Harrington

PH:caw

Enclosure: LER 77-031/01X-1

cc: Document Control Desk

U.S. Nuclear Regulatory Commission

Washington, D.C. 20555

Standard BECo LER Distribution

11 15